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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/721,493	10/721,493 11/25/2003		Manfred Rimkus	09038-US	6046
30689	7590	11/24/2006		EXAM	INER
DEERE &			HAMO, PATRICK		
ONE JOHN DEERE PLACE MOLINE, IL 61265				ART UNIT	PAPER NUMBER
				3746	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/721,493	RIMKUS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Patrick Hamo	3746	
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS f e, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status			
<ol> <li>Responsive to communication(s) filed on 25 A</li> <li>This action is FINAL.</li> <li>Since this application is in condition for allowated closed in accordance with the practice under A</li> </ol>	s action is non-final.  Ince except for formal matters,		
Disposition of Claims			
4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 25 November 2003 is/a  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 11.	are: a) $\square$ accepted or b) $\square$ objustion of a distribution acceptable are distributed if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	ation No ived in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 16 Nov 05.	4) ☐ Interview Summ Paper No(s)/Mai 5) ☐ Notice of Informa 6) ☑ Other: <u>sample re</u>	Date  Patent Application	

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### **DETAILED ACTION**

## **Drawings**

1. For greater clarity in the drawings, the Office requests a replacement drawing for figure 1 with the elements of a block diagram labeled in addition to the numerals referenced in the specification. An example sheet of the changes requested is attached. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 2 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakai et al., 6,234,769.

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Sakai discloses a hybrid compressor driven by an engine and a motor 100 (column 9, lines 11-15), the motor controlled via control unit 400, a planetary gearbox 640 connected on its output side to a compressor 610 and on its input side to the motor and engine (see figure 8), the engine and motor connected to the sun gear and the compressor connected to the planet gears (see figures 8 and 10), the control unit responding to pressure measurements in pressure control chamber 304d and wherein the performance of the compressor can be controlled as a function of the pressure via a clutch 304 (column 4, lines 21-33). In regards to the claimed limitation that the rotational speed of the drive engine can be varied, it is inherent that the engine cannot rotate forever, and that it can therefore be varied at least between on and off speeds.

4. Claims 1, 5, 6, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Takano et al., 5,867,996.

Takano discloses a compressor control device including an engine 1, a motor 9 with a motor controller 18, a gearbox (the combination of 2, 3, 6, 7, 8, and 10), connected on its output side to a compressor 4 for compressing and discharging air and on its input side to the motor and engine, and sensors 20-22 and 26 for measuring the temperature of the air to be heated or cooled, the sensors inputting to electrical control unit 15 which outputs to the motor controller, and a further temperature setting input 23 for setting a target temperature. Again, in regards to the claimed limitation that the

rotational speed of the drive engine can be varied, it is inherent that the engine cannot rotate forever, and that it can therefore be varied at least between on and off speeds.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al., 6,234,769.

Sakai discloses all the limitations substantially as claimed except for the drive engine connected to the internal gear, the auxiliary motor connected to the sun gear, and the compressor connected with a planet carrier of the planetary gearbox.

However, this is a mere rearrangement of parts with respect to the invention of Sakai et al., and would not have modified the operation of the device. Therefore, these limitations are held unpatentable. See MPEP §2144.04(6)(c).

7. Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano et al., in view of Crook et al., 5,628,234.

Takano discloses all the limitations substantially as claimed except for the following taught by Crook: a torque limiter in the form of a clutch 106, interposed between a motor 100 and shaft 20 that leads to a transmission (see figure 1), in order to protect the motor from a variety of fail conditions by disengaging the clutch (column 2,

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lines 50-59) and a gear ratio stage 110 between the motor 100 and transmission (see figure 1) that allows for gear reduction and reversal (column 2, lines 35-43).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to have modified Takano with Crook to protect the motor (column 2, lines 50-59).

8. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano et al., in view of Kawai et al., 6,073,456.

Takano discloses all the limitations substantially as claimed except for a sensor for the measurement of the rotational speed of the drive engine, wherein the conveying device can be controlled by controlling the auxiliary motor as a function of the rotational speed of the drive engine.

Kawai teaches a control for air conditioning device for a hybrid vehicle operated by an engine and an auxiliary motor including an engine rotational speed sensor (column 9, lines 28-31) and a coolant temperature sensor (column 9, lines 32-33) in order to judge whether the engine should be operated or shut down (column 9, lines 42-44) to conserve fuel, in which case the motor takes over the operation of the device (column 8, lines 44-54). A performance map as a function of temperature and rotational speed can be constructed since both temperature and rotational speed sensors and inputs are present in the invention of Kawai et al.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to have combined Takano with Kawai in order to conserve fuel (Abstract, lines 1-2).

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#### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick Hamo whose telephone number is 571-272-3492. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg can be reached on 571-272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

РΗ

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EHUD GARTENBERG SUPERVISORY PATENT EXAMINER

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SAMPLE : REPLACEMENT 1/3

